

ABSTRACT

Agro-Ecological Assessment in Wadi Al-Miyah Saudi Arabia

Agricultural land in Wadi Al-Miyah extends from Al-Kahfah Village in the north to Judah in the south, shallow and deep groundwater is the only source of irrigation in the study area.

Cultivated land in Wadi Al-Miyah currently faces the following problems : High soil salinity, High water table level, Absence of natural drainage, and Hardpan layer in different depth of soil profile.

The main objective of this paper is to assess the Agro-Ecological situation in Wadi Al-Miyah.

The results of this study indicate : (1) The climate being one of the most important environmental factors has a direct effect on the crop consumptive use. (2) The topographical factor of the study area has a role in the distribution of sabkhas and agricultural area in Wadi Al-Miyah. (3) The water quality of shallow and deep underground reservoir is classified as being of high and very high salinity. (4) The soil salinity of the cultivated fields is classified as a high in very few fields, and low in most fields.